

**AMENDMENTS TO THE CLAIMS**

Please enter the following amendments without prejudice or disclaimer.

This listing of claims will replace all prior versions, and listings, of claims in the application:

**In the claims**

1. (Currently Amended): A method for modifying the polysaccharide/saccharide composition of a plant or plant organ, wherein said method comprises growing a transgenic plant containing a vector or recombinant expression construct containing a nucleotide sequence encoding a microbial endo-glucanase operably linked to a regulatory ~~or leader~~ sequence under conditions wherein said glucanase is expressed and the polysaccharide/saccharide ~~saccharide~~ composition of said plant or plant organ is increased as a result of said expressed glucanase, wherein modified by the expressed glucanase and said regulatory sequence is selected from the group consisting of

- a) a regulatory sequence that directs expression of said microbial endo-glucanase-encoding nucleotide sequence at a selected stage of development or maturity of the transgenic plant or plant organ;
- b) a regulatory sequence comprising a CaMV 35S promoter; and
- c) a regulatory sequence that directs tissue-specific expression of said microbial endo-glucanase-encoding nucleotide sequence in a plant; and ~~wherein said leader sequence targets the expressed endo-glucanase to polysaccharide/saccharide material contained in a cellular compartment or organelle.~~

2.-26. (Canceled)

27. (Previously Presented): The method of claim 1, wherein said endo-glucanase is an endo-1,3- $\beta$ -glucanase.

28. (Previously Presented): The method of claim 1, wherein said endo-glucanase is an endo-1,4- $\beta$ -glucanase.

29.-41. (Canceled)

42. (Previously Presented): The method of claim 1, wherein said transgenic plant further contains at least one expression cassette which contains a nucleotide sequence encoding a second microbial enzyme that acts upon degradation products resulting from the action of the expressed glucanase.

43.-47. (Canceled)

48. (Previously Presented): The method of claim 42, wherein the second microbial enzyme is selected from the group consisting of a maltase, an  $\alpha$ -dextrinase, an  $\alpha$ -1,6-glucosidase, a glucose isomerase and an invertase.

49-50. (Canceled)

51. (Previously Presented): The method of claim 1, wherein said transgenic plant is selected from the group consisting of tomato, potato, corn, cassava, carrot, lettuce, strawberry and tobacco.

52.-53. (Canceled)

54. (Previously Presented): A recombinant DNA expression cassette comprising a regulatory sequence operably linked to a nucleotide sequence encoding a microbial endo-glucanase which regulatory sequence is selected from the group consisting of

- a) a regulatory sequence that directs expression of said microbial endo-glucanase-encoding nucleotide sequence at a selected stage of development or maturity of the transgenic plant or plant organ;
- b) a regulatory sequence comprising a CaMV 35S promoter; and
- c) a regulatory sequence that directs tissue-specific expression of said enzyme-encoding nucleotide sequence in a plant.

55. (Previously Presented): A vector comprising the expression cassette according to claim 54.

56. (Currently Amended): A ~~stably transformed~~, transgenic plant, wherein said plant contains a stably integrated nucleotide sequence comprising a regulatory sequence operably linked to a sequence encoding a microbial endo-glucanase resulting from the introduction of the expression cassette according to claim 54.

57. (Previously Presented): A bacterial strain wherein said bacterial strain contains a vector according to claim 55.

58. (Currently Amended): A ~~stably transformed~~, transgenic plant or plant organ, wherein said plant or plant organ contains endo-glucanase modified polysaccharide/saccharide material contained in a cellular compartment or organelle, said plant or plant organ being made by the method of claim 1, wherein said vector or recombinant expression construct is stably contained in said plant or plant organ.

59.-60. (Canceled)

61. (New): The method of claim 1 wherein said expressed glucanase is operably linked to a leader sequence, wherein said leader sequence targets the expressed endo-glucanase to a cellular compartment or organelle.